

FIG. 1
PRIOR ART

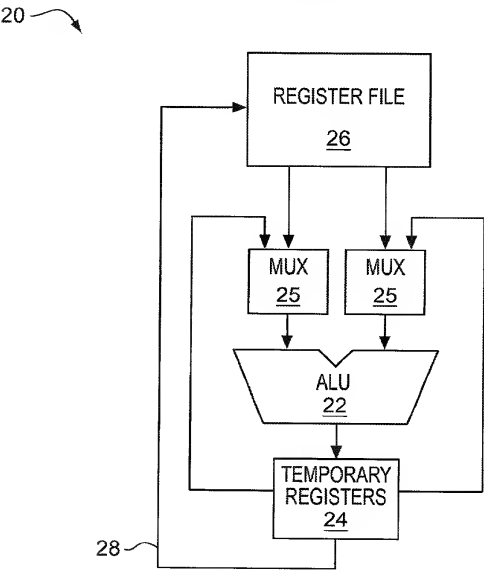
10

12

CYCLE	PIPELINE STAGES			
	F	R	E	W
1	i			
2	i1	i		
3	i2	i1	i	
4	i3	i2	i1	i

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FIG. 2
PRIOR ART



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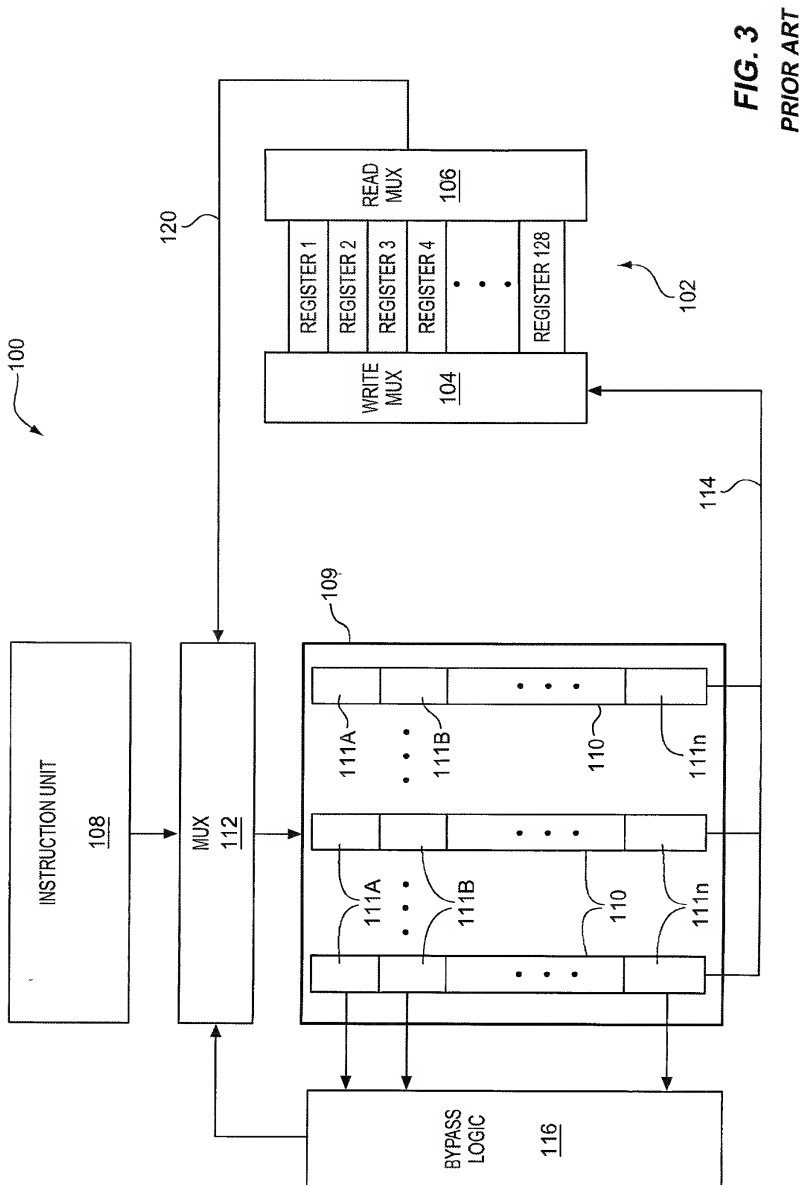


FIG. 3
PRIOR ART

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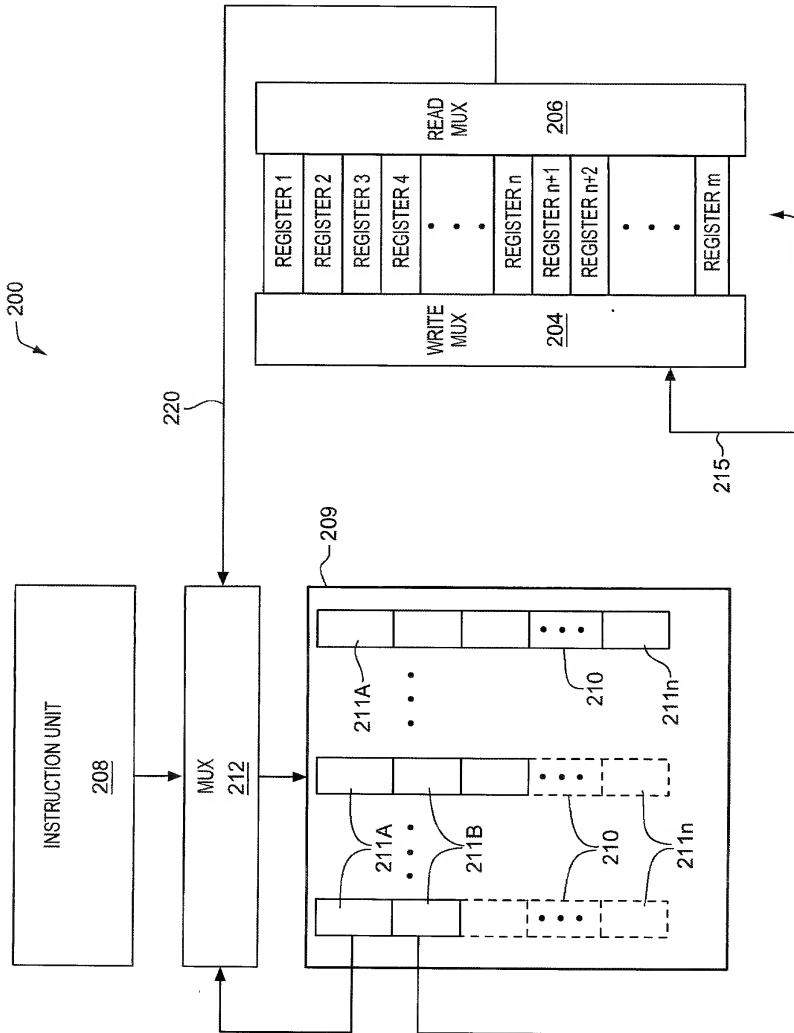


FIG. 4

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FIG. 5

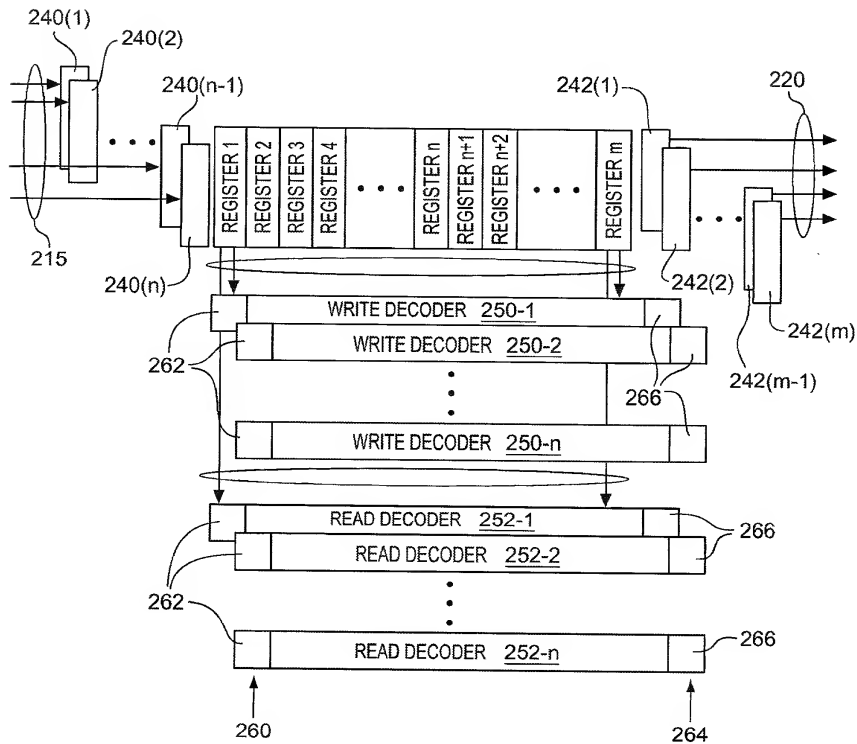


FIG. 6

300

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PIPELINES

312

REGISTER FILE COLUMNS

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CYCLE	E	D	W	J	K	L
1	i			Rm, AN	free	free
2	i1	i		Rm, A	Rm, N	free
3	i2	i1	i	Rm, A	Rm, N-1	Rm, N
4	i3	i2	i1	Rm, N	Rm, A	Rm, N-1
5		i3	i2	Rm, N-1	free	Rm, AN

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FIG. 7

